

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Loyd E. East, Jr., et al )	Art Unit:	Unknown
Serial No.:	Unknown )		
Filed:	Concurrently Herewith )	Examiner:	Unknown
For:	Method of Optimizing )		
	Production of Gas From )		
	Vertical Wells in Coal )		
	Seams )		

INFORMATION DISCLOSURE STATEMENT

COMMISSIONER FOR PATENTS  
Alexandria, VA 22313-1450

SIR:

The following documents are known to Applicants or Applicants' attorneys and are submitted for the Examiner to consider in the above-captioned application.

U. S. PATENTS

U.S. Patent Number 5,499,678 issued 03/19/96 to Jim B. Surjaatmadja, et al;

U.S. Patent Number 5,765,642 issued 06/16/98 to Jim B. Surjaatmadja;

U.S. Patent Number 6,280,000 issued 08/28/01 to Joseph A. Zupanick; and

U.S. Patent Number 6,604,580 issued 08/12/03 to Joseph A. Zupanick, et al.

OTHER MATERIAL

U.S. Serial No. \_\_\_\_\_, entitled "Methods for Geomechanical Fracture Modeling" by Mohamed Y. Soliman, et al.

Copies of the aforementioned references and Form PTO-1449 are submitted herewith.

Respectfully submitted,



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PTO-1449  <b>Information Disclosure Citation in an Application</b>	Application No.	Applicant(s)
		Loyd East, Mohamed Soliman, S. Dana Weida, Jim B. Surjaatmadja
	Docket Number  HES 2003-IP-011867	Group Art Unit  Filing Date

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

## **NON-PATENT DOCUMENTS**

<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>		
		U.S. Serial No. _____, entitled "Methods for Geomechanical Fracture Modeling" by Mohamed Y. Soliman, et al.

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	